



# Epilepsy Center

## What is Epilepsy?

Epilepsy is a neurological disorder that affects the nervous system, causing seizures that are not due to another known factor or medical condition. Refractory epilepsy occurs when medicine is unable to bring seizures under control.

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# About the Epilepsy Center

Springfield Memorial Hospital is home to the only Level 3 adult epilepsy center in Springfield. It is accredited by the National Association of Epilepsy Centers (NAEC) and provides a range of diagnostic evaluations and treatments including medical, neuropsychological, surgical and psychosocial services to treat patients diagnosed with epilepsy.

## MULTIDISCIPLINARY TEAM

The Neurosciences Center is a Level 3 adult epilepsy center that has a fully integrated and multidisciplinary team that includes specialists from SIU Medicine. The team includes specialists in neurology, neurosurgery and neuropsychology, as well as a team of epilepsy-trained nurses, mid-level providers, pharmacists, social workers and other clinical and administrative staff. Our team works to help you regain or maintain a fulfilling and productive life.

## EPILEPSY MONITORING UNIT

The epilepsy monitoring unit (EMU) evaluates, diagnoses and treats seizures. Our epilepsy experts—including epileptologists, neurologists, neurosurgeons, radiologists, nurses and nurse practitioners, EEG technicians, psychologists, social workers and other specially trained clinical care staff—monitor and care for you 24/7 during your stay.

## SERVICES

**Our services include, but are not limited to:**

- Epilepsy and seizure diagnosis
- Imaging
- Intracranial EEG
- Management of withdrawal from epilepsy medications
- Neuropsychology
- Neurosurgery
- Physical therapy and rehabilitation
- Presurgical evaluations
- Psychiatry
- Routine EEG
- Treatment of neurologic dysfunction such as language difficulty, sensory disturbances (numbness and tingling) and weakness
- Wada testing (intracarotid sodium amobarbital test)

## SURGICAL TREATMENTS

Epilepsy surgery can help control seizures when medications aren't effective and can significantly improve quality of life.

**Surgery options include, but are not limited to:**

- Corpus callosotomy
- Hemispherectomy
- Implantation of a vagus nerve stimulator
- Multiple subpial transection
- Resective surgery



## CONDITIONS TREATED

**Some of the conditions we treat include:**

- Absence seizures
- Atonic seizures
- Convulsions
- Epilepsy
- Focal seizures
- Gelastic seizures
- Generalized seizures
- Intractable epilepsy
- Myoclonic seizures
- Myoclonus
- Psychogenic non-epileptic events
- Tonic seizures
- Tonic-clonic seizures
- Tremor

We provide the most **advanced technology** to detect and treat epilepsy.